

IN THE CLAIMS

1. (Currently Amended) A method of reporting reception states of first information received on a first traffic channel and second information received on a second traffic channel in one frame from a base station in a mobile station, comprising the steps of:

allocating each of a plurality of multiplexed bits indicating ~~the~~ a reception states of the first information and each of a plurality of multiplexed bits indicating a reception state of the second information to one of sixteen slots of a reverse frame via a multiplexer, wherein each slot comprises a single bit; and

transmitting the reverse frame;

wherein the reception state indicating bits of the first and the second information are reception result indicator bits for power control on a frame basis.

2. (Currently Amended) The method of claim 1, wherein the plurality of multiplexed reception state indicating bits of the first ~~information and the reception state indicating bits of the~~ and second information are alternatively allocated.

3. (Original) The method of claim 1, wherein the reverse frame is a pilot channel frame.

4. (Currently Amended) The method of claim 1, wherein each of the plurality of multiplexed ~~the~~ reception state indicating bits of the first ~~information are QIBs (Quality Indicator Bits) and the reception state indicating bits of the~~ second information ~~are~~ comprise at least one of a Quality Indicator Bit (QIB) and an ~~EIBs (Erasure Indicator Bits) (EIB).~~

5. (Currently Amended) The method of claim 1, wherein the ~~reception state indicating~~ plurality of multiplexed reception state indicating bits of the first ~~information and the reception~~ ~~state indicating bits of the~~ and second information are transmitted at a 50 bps data rate.

6. (Currently Amended) A method of controlling transmission power of traffic channels in a base station which transmits a first information on a first traffic channel and a second

information on a second traffic channel in one frame to a mobile station, wherein a reception result of the first and the second information is received from the mobile station, comprising the steps of:

receiving a reverse frame ~~including~~ comprising a plurality of multiplexed reception state indicating bits of the first information and a plurality of multiplexed reception state indicating bits of the second information, wherein the reverse frame comprises sixteen in a plurality of slots and each slot comprises a single bit;

separating the reception state indicating bits from the reverse frame according to the first and the second information; and

performing a power control on the first and the second traffic channels according to the first and the second information;

wherein the reception state indicating bits of the first and the second information are reception result indicator bits for power control on a frame basis.

7. (Currently Amended) The method of claim 6, wherein the plurality of multiplexed reception state indicating bits of the first ~~information and the reception state indicating bits of the~~ and second information are alternatively allocated.

8. (Original) The method of claim 6, wherein the reverse frame is a pilot channel frame.

9. (Currently Amended) The method of claim 6, wherein each of the plurality of multiplexed reception state indicating bits of the first ~~information and second information~~ comprises at least one of a ~~are QIBs (Quality Indicator Bits) (QIB) and the reception state indicating bits of the second information are EIBs (an Erasure Indicator Bits) (EIB).~~

10. (Currently Amended) The method of claim 6, wherein the plurality of multiplexed reception state indicating bits of the first ~~information and the reception state indicating bits of the~~ and second information are transmitted at a 50 bps data rate.

11. (Currently Amended) A mobile station for receiving first information on a first traffic channel and second information on a second traffic channel in one frame from a base station and reporting reception results of the first and the second information to the base station, comprising:

a first multiplexer (MUX) for multiplexing reception state indicating bits of the first and the second information; and

a second MUX for sequentially allocating the multiplexed the reception state indicating bits of the first and the second information in slots of a reverse frame, wherein the reverse frame comprises sixteen slots and each slot having comprises a single-one reception state indicating bit.

12. (Original) The mobile station of claim 11, wherein the first MUX allocates a first predetermined number of successive reception state indicating bits of the first information, each bit being allocated to a successive leading slot, and a second predetermined number of successive reception state indicating bits of the second information, each bit being allocated to a successive trailing slot, the trailing slots following the leading slots for the first information.

13. (Original) The mobile station of claim 11, wherein the reception state indicating bits of the first and second information are reception result indicator bits for power control on a frame basis.

14. (Original) The mobile station of claim 11, wherein the reverse frame is a pilot channel frame.

15. (Currently Amended) The mobile station of claim 11, wherein each of the reception state indicating bits of the first and second information comprises at least one of a ~~are~~ QIBs (Quality Indicator Bits) (QIB) ~~and the reception state indicating bits of the second information are EIBs (an Erasure Indicator Bits) (EIB).~~

16. (Original) The mobile station of claim 11, wherein the reception state indicating bits of the first information and the reception state indicating bits of the second information are transmitted at a 50 bps data rate.

17. (Currently Amended) A base station for transmitting first information on a first traffic channel and second information on a second traffic channel in one frame to a mobile station and receiving the reception results of the first and the second information from the mobile station, comprising:

a first demultiplexer (DEMUX) for receiving a reverse frame ~~including a plurality of~~ comprising sixteen slots and for separating reception state indicating bits of the first and the second information multiplexed by the mobile station from the reverse frame, wherein each slot comprises a single reception state indicating bit; and

a second DEMUX for demultiplexing the multiplexed reception state indicating bits into the reception state indicating bits of the first information and the reception state indicating bits of the second information.

18. (Original) The base station of claim 17, wherein the multiplexed reception state indicating bits of the first information are arranged in consecutive leading slots of the reverse frame and the multiplexed reception state indicating bits of the second information are arranged in trailing consecutive slots following the leading slots.

19. (Original) The base station of claim 17, wherein the reception state indicating bits of the first and the second information are reception result indicator bits for power control on a frame basis.

20. (Original) The base station of claim 17, wherein the reverse frame is a pilot channel frame.

21. (Currently Amended) The mobile station of claim 17, wherein each of the reception state indicating bits of the first and second information comprises at least one of a ~~are QIBs~~

(Quality Indicator Bits) (QIB) and ~~the reception state indicating bits of the second information~~
~~are EIBs (~~ an Erasure Indicator Bits) (EIB)~~).~~

22. (Original) The mobile station of claim 17, wherein the reception state indicating bits of the first information and the reception state indicating bits of the second information are transmitted at a 50 bps data rate.